

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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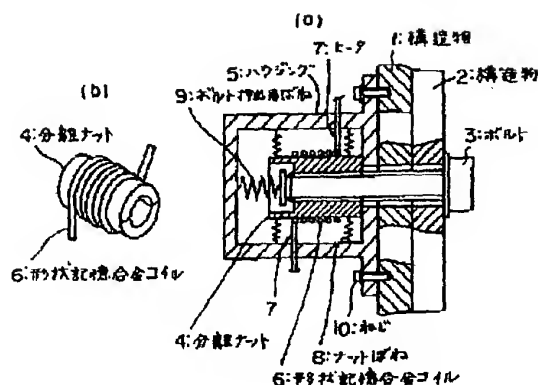
APPLICATION DATE : 27-12-93  
APPLICATION NUMBER : 05349678

APPLICANT : NEC CORP;

INVENTOR : HOSHINO TERUOMI;

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TITLE : SEPARATION MECHANISM FOR SPACE STRUCTURE



ABSTRACT : PURPOSE: To couple and separate structure bodies to and from each other safely and accurately, regardless of a lightweight and small structure.

CONSTITUTION: This separation mechanism is constituted of a bolt 3 for coupling a pair of structure bodies 1 and 2 to each other, a housing 5 formed on one of the bodies 1 and 2, a radially divided separation nut 4 laid in the housing 5 and screwed to the bolt 3, a shape memory alloy coil 6 wound around the external surface of the nut 4 and having each end connected to a heater 7 via the housing 5, and a bolt pushing spring 9 laid between the end of the bolt 3 and the inner wall of the housing 5 for pressing the bolt 3 to the structure bodies 1 and 2.

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